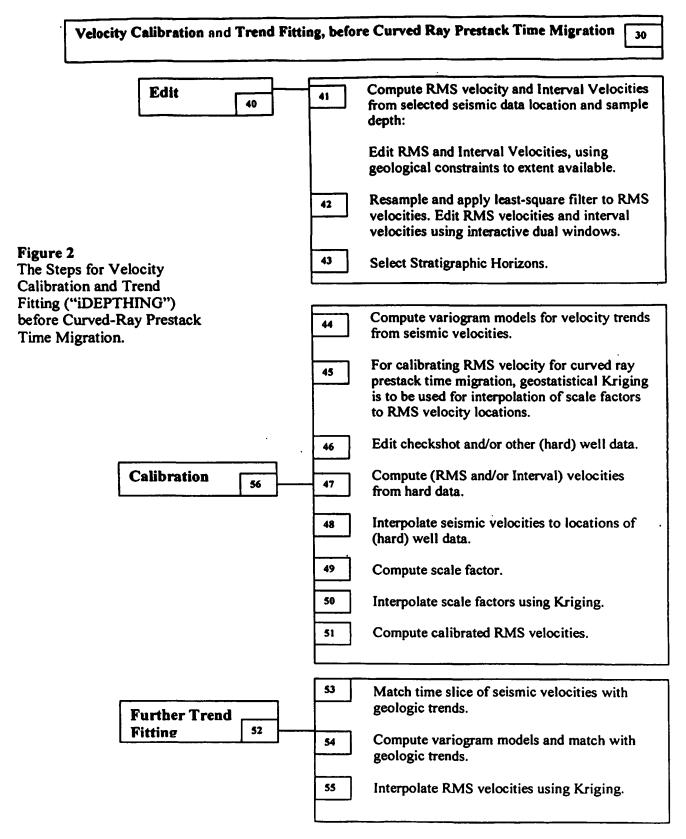


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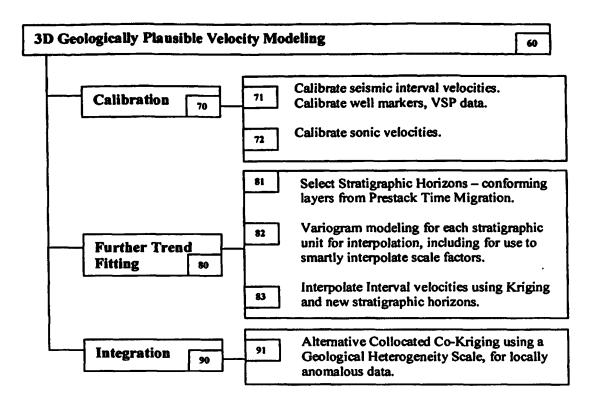
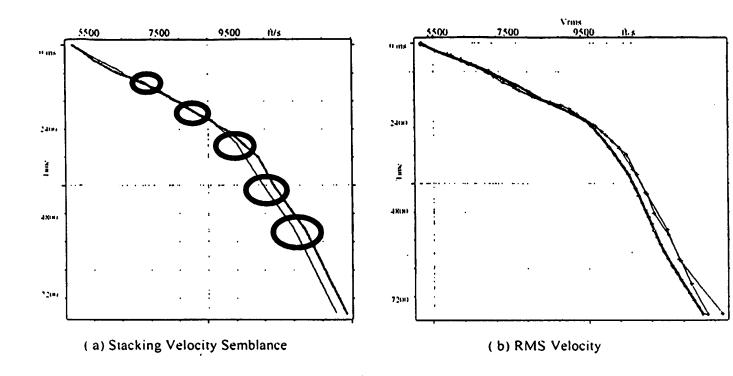


Figure 3
The Steps for Constructing a Geologically Plausible Velocity Modeling for Prestack Depth Migration.

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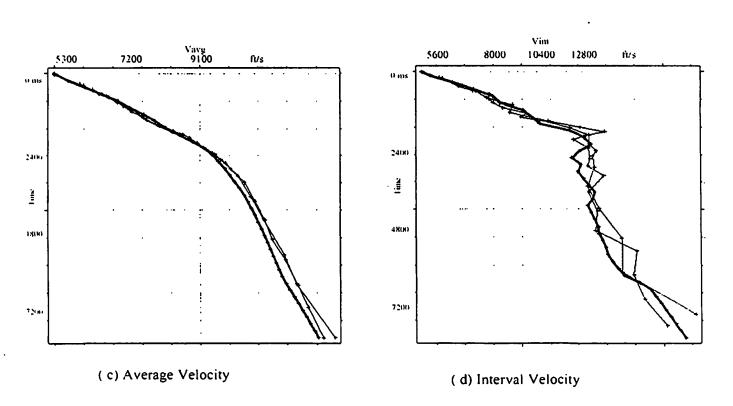


Figure 4

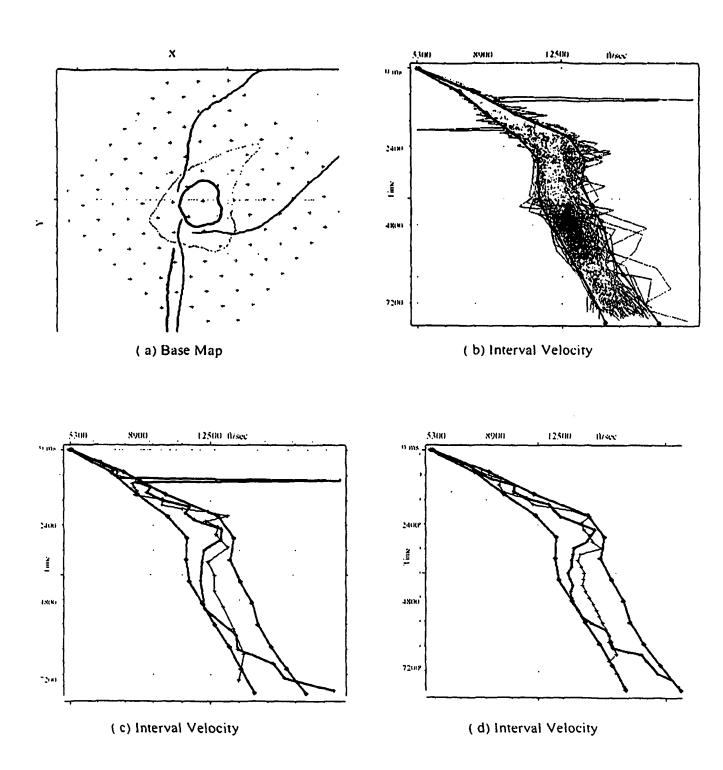
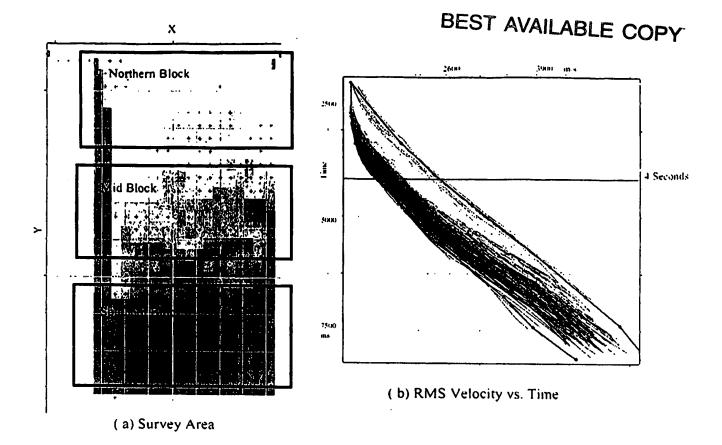


Figure 5:



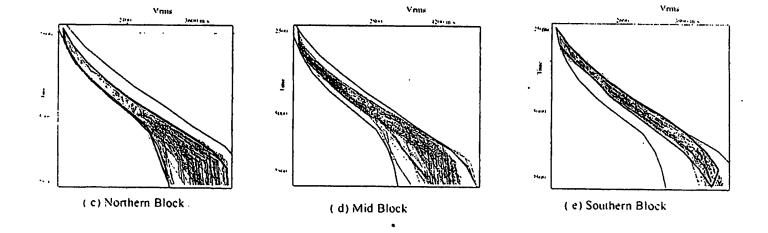


Figure 6

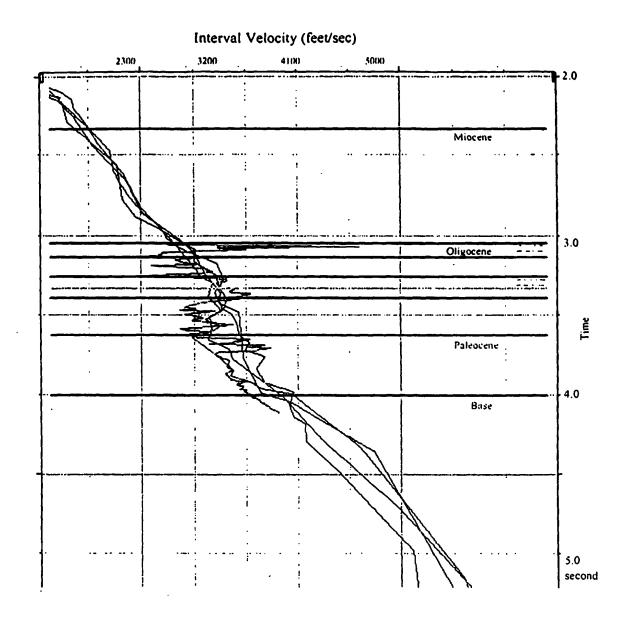
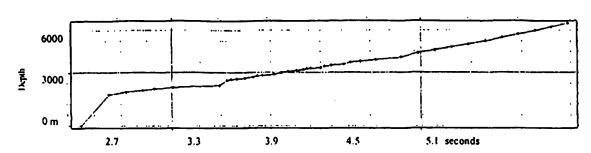
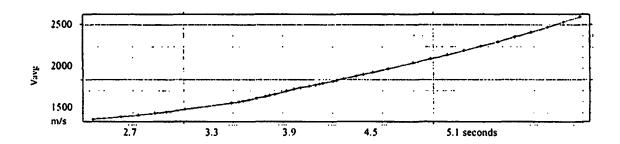


Figure 7

### (a) Time vs. Depth



#### (b) Time vs. Checkshot\_Average\_Velocity



### (c) Time vs. Checkshot\_Interval\_Velocity

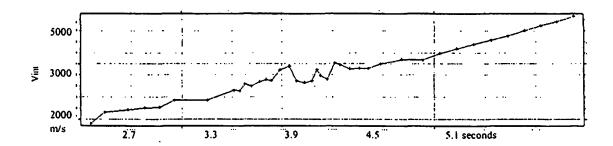
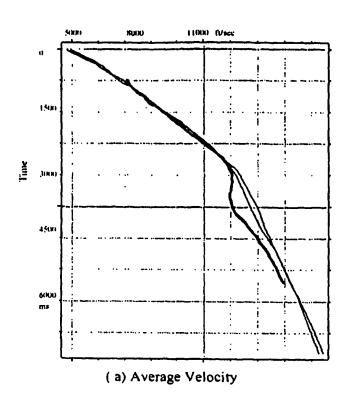
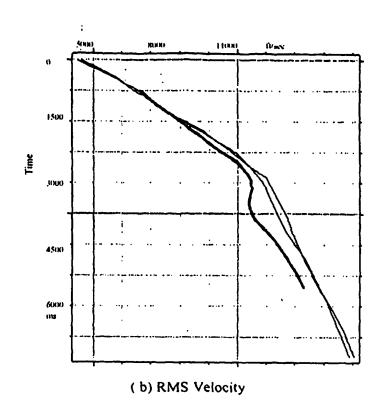


Figure 8





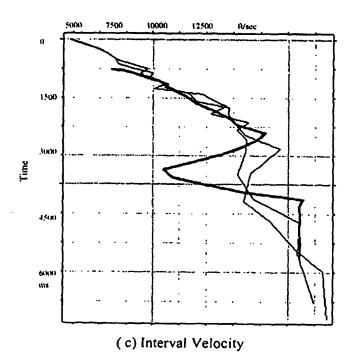
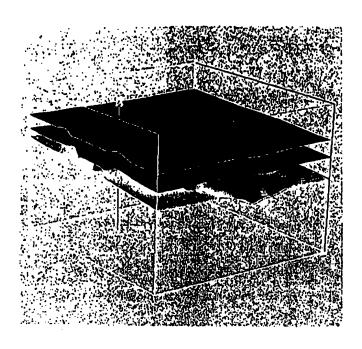
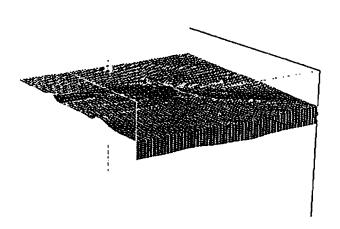


Figure 9 Checkshot Velocity

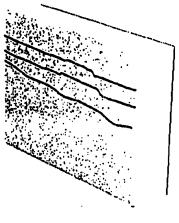


(a) Stratigraphic Surfaces

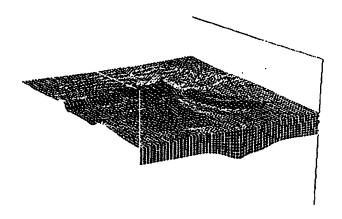


(c) Upper Stratigraphic Unit

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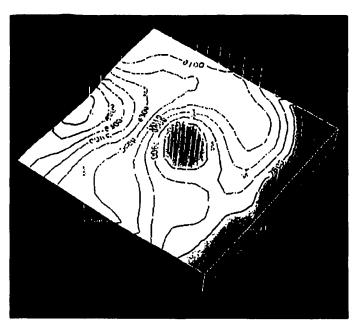
(b) Cross Section



(d) Lower Stratigraphic Unit

Figure 10

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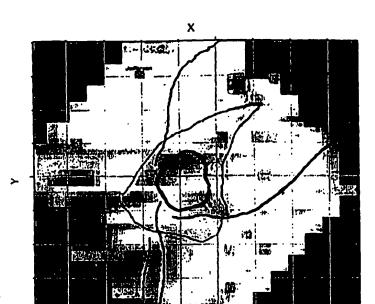
1 a) Pre-calibration Seismic Velocity

(b) Post-calibration Seismic Velocity

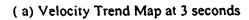
Well	Seismic	Well	Scale	Calibrated	Marker
	Velocity	Velocity	Factor	Velocity	Depth
1	7941.8	8009.305	1.0085	8009.55	5055.46
2	7830.99	7834.905	1.0005	7834.94	4730.72
3	7842.7	7874.855	1.0041	7875.18	4790.81
4	8316.04	8324.19	1.00098	8324.12	5590.71
5	8537.02	8356.035	0.97879	8356	6077.98
6	8226.63	8274.591	1.00583	8274.6	5641.66

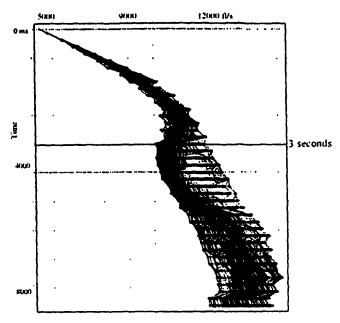
(c) Calibration Table: Velocities before and after calibration

Figure 11



WO 2005/010797





(b) Interval Velocity Trend

Figure 12

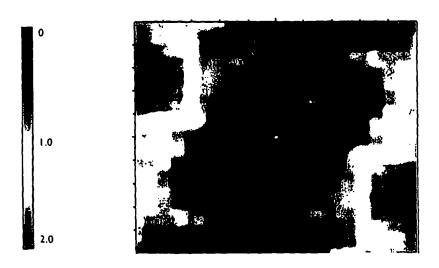


Figure 13 Variogram Map

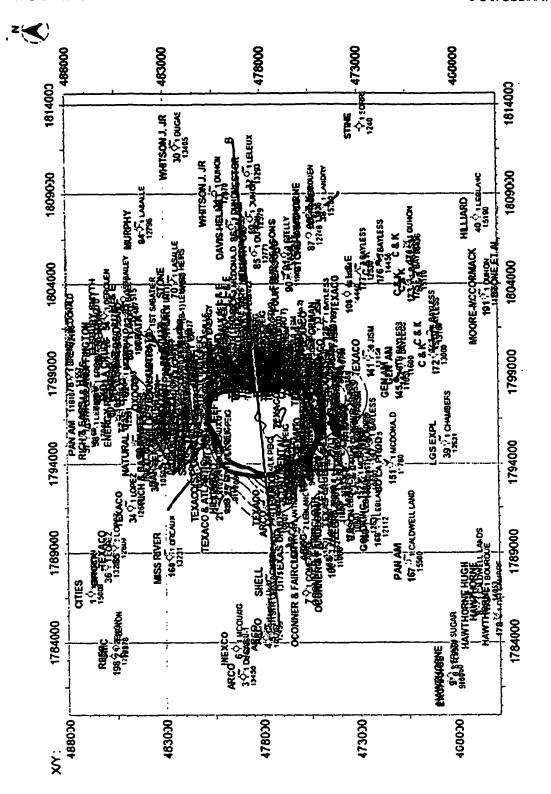
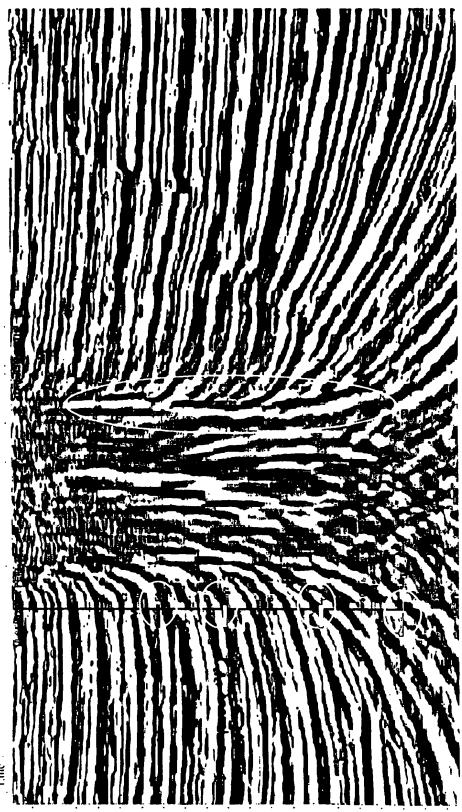
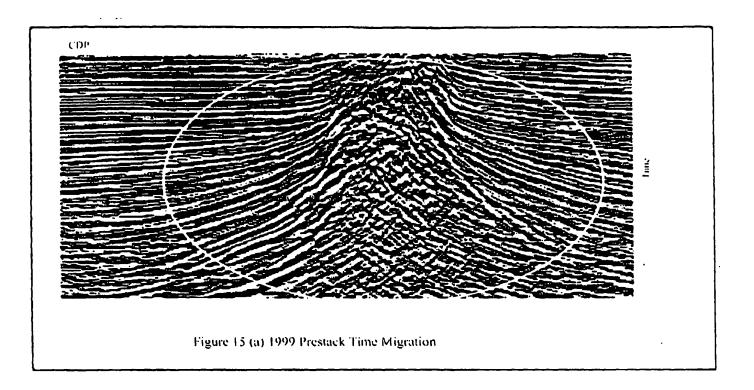
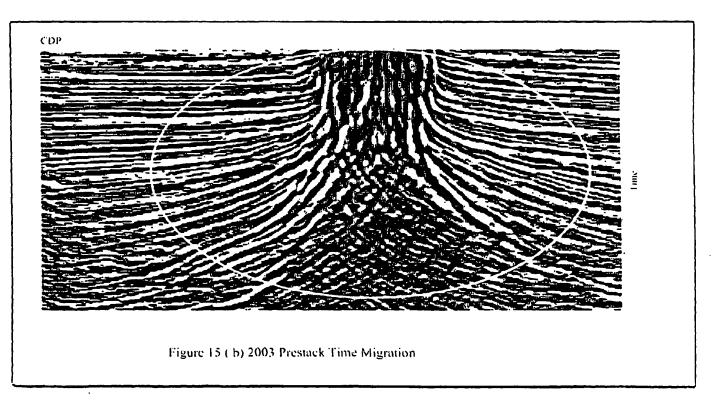


Figure 14 (a) Base Map

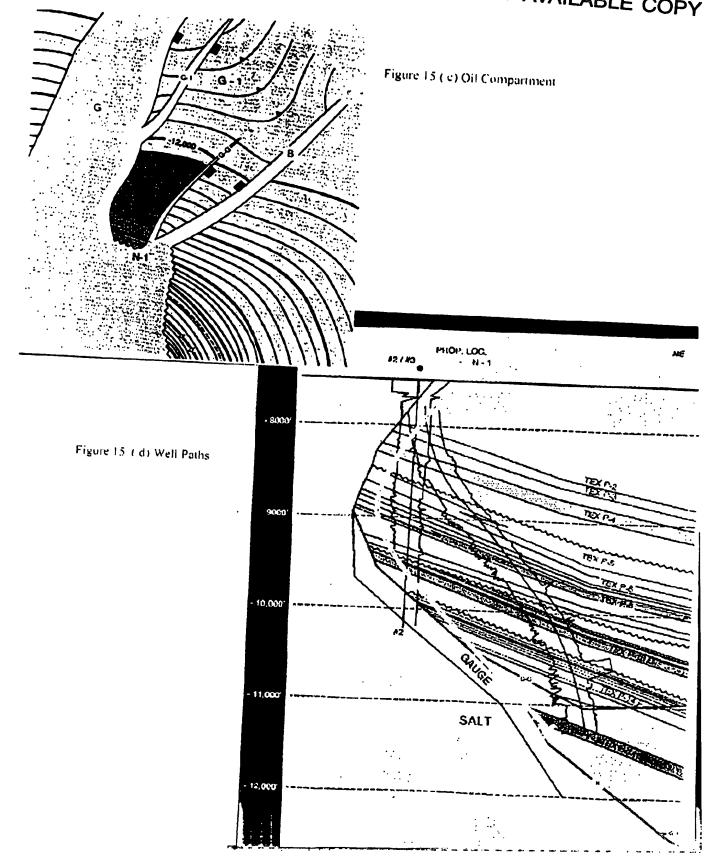








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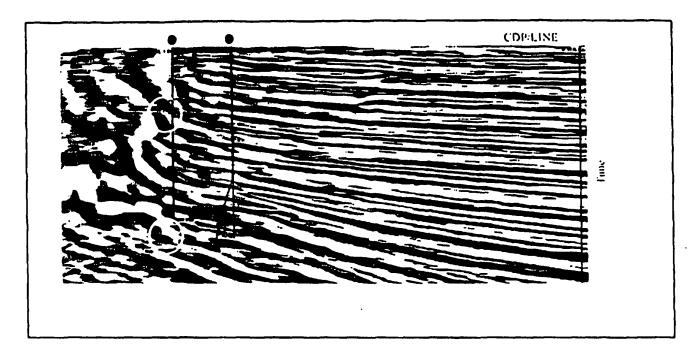


Figure 16 (a) Prestack Time Migration without Velocity Calibration and Trend Fitting

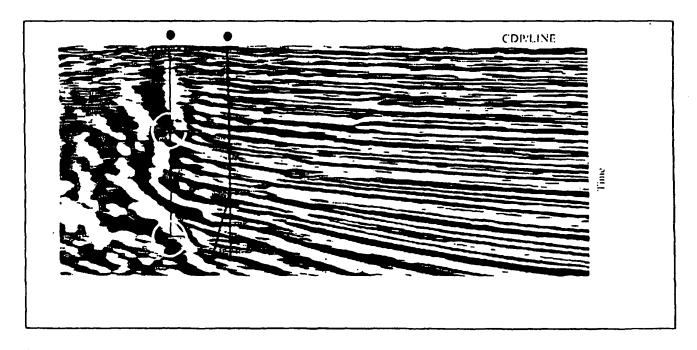


Figure 16 (b) Prestack Time Migration with Velocity Calibration and Trend Fitting

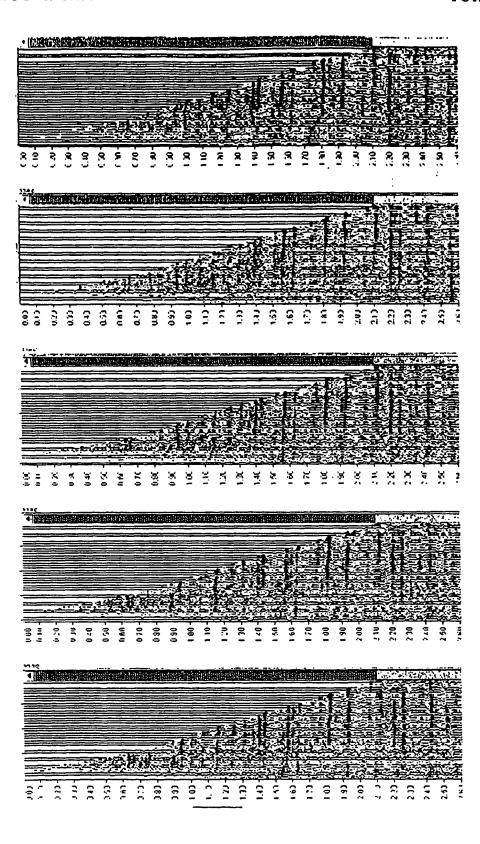


Figure 17 Common Image Point Gathers